

Abstract

The production of a cold-rolled strip or sheet of steel with good deforming properties, which is subjected to recrystallizing annealing and, if appropriate, a dressing operation after hot rolling, coiling and cold rolling and has a bake-hardening potential after a subsequent deformation and for a subsequent temperature treatment, succeeds because the recrystallizing annealing is carried out in a ball-type furnace while coiled and because the strip or sheet is subjected to cooling at a cooling rate of $\geq 1^\circ\text{C/s}$ after the recrystallizing annealing from a temperature T of $200^\circ\text{C} \leq T \leq A_1$.

It is consequently possible to obtain properties of bell-annealed steels and nevertheless attain a bake-hardening effect, in particular for C contents of $\geq 0.02\%$.

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